

AIK Sequence Listings.ST25
SEQUENCE LISTING

<110> Syrrx, Inc.
 <120> Crystallization of Aurora/lpllp-related Kinase
 <130> SYR-AIK-5001-C1
 <140> Not Yet Assigned
 <141> 2003-06-20
 <150> 60/390,355
 <151> 2002-06-21
 <160> 3
 <170> PatentIn version 3.1
 <210> 1
 <211> 403
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Amino acid sequence for full-length human wild type AIK
 <222> (1)..(403)
 <223>
 <220>
 <221> Amino acid sequence for full-length human wild type AIK
 <222> (1)..(403)
 <223> Seq. ID. No. 1 encodes for residues 124-391
 <300>
 <308> Genbank Accession No. NP_003591
 <309> 1998-05-08
 <313> (1)..(403)

<400> 1
 Met Asp Arg Ser Lys Glu Asn Cys Ile Ser Gly Pro Val Lys Ala Thr
 1 5 10 15
 Ala Pro Val Gly Gly Pro Lys Arg Val Leu Val Thr Gln Gln Ile Pro
 20 25 30
 Cys Gln Asn Pro Leu Pro Val Asn Ser Gly Gln Ala Gln Arg Val Leu
 35 40 45
 Cys Pro Ser Asn Ser Ser Gln Arg Val Pro Leu Gln Ala Gln Lys Leu
 50 55 60
 Val Ser Ser His Lys Pro Val Gln Asn Gln Lys Gln Lys Gln Leu Gln
 65 70 75 80
 Ala Thr Ser Val Pro His Pro Val Ser Arg Pro Leu Asn Asn Thr Gln
 85 90 95

AIK Sequence Listings.ST25

Lys Ser Lys Gln Pro Leu Pro Ser Ala Pro Glu Asn Asn Pro Glu Glu
 100 105 110
 Glu Leu Ala Ser Lys Gln Lys Asn Glu Glu Ser Lys Lys Arg Gln Trp
 115 120 125
 Ala Leu Glu Asp Phe Glu Ile Gly Arg Pro Leu Gly Lys Gly Lys Phe
 130 135 140
 Gly Asn Val Tyr Leu Ala Arg Glu Lys Gln Ser Lys Phe Ile Leu Ala
 145 150 155 160
 Leu Lys Val Leu Phe Lys Ala Gln Leu Glu Lys Ala Gly Val Glu His
 165 170 175
 Gln Leu Arg Arg Glu Val Glu Ile Gln Ser His Leu Arg His Pro Asn
 180 185 190
 Ile Leu Arg Leu Tyr Gly Tyr Phe His Asp Ala Thr Arg Val Tyr Leu
 195 200 205
 Ile Leu Glu Tyr Ala Pro Leu Gly Thr Val Tyr Arg Glu Leu Gln Lys
 210 215 220
 Leu Ser Lys Phe Asp Glu Gln Arg Thr Ala Thr Tyr Ile Thr Glu Leu
 225 230 235 240
 Ala Asn Ala Leu Ser Tyr Cys His Ser Lys Arg Val Ile His Arg Asp
 245 250 255
 Ile Lys Pro Glu Asn Leu Leu Leu Gly Ser Ala Gly Glu Leu Lys Ile
 260 265 270
 Ala Asp Phe Gly Trp Ser Val His Ala Pro Ser Ser Arg Arg Thr Thr
 275 280 285
 Leu Cys Gly Thr Leu Asp Tyr Leu Pro Pro Glu Met Ile Glu Gly Arg
 290 295 300
 Met His Asp Glu Lys Val Asp Leu Trp Ser Leu Gly Val Leu Cys Tyr
 305 310 315 320
 Glu Phe Leu Val Gly Lys Pro Pro Phe Glu Ala Asn Thr Tyr Gln Glu
 325 330 335

Thr Tyr Lys Arg Ile Ser Arg Val Glu Phe Thr Phe Pro Asp Phe Val
 Page 2

AIK Sequence Listings.ST25
345 350

340

Thr Glu Gly Ala Arg Asp Leu Ile Ser Arg Leu Leu Lys His Asn Pro
355 360 365

Ser Gln Arg Pro Met Leu Arg Glu Val Leu Glu His Pro Trp Ile Thr
370 375 380

Ala Asn Ser Ser Lys Pro Ser Asn Cys Gln Asn Lys Glu Ser Ala Ser
385 390 395 400

Lys Gln Ser

<210> 2
<211> 804
<212> DNA
<213> Homo sapiens

<220>
<221> Human cDNA sequence encoding residues 125-391 of AIK
<222> (1)..(804)
<223>

<400> 2
aagaggcagt gggctttgga agactttgaa attggtcgcc ctctgggtaa aggaaagttt 60
ggtaatgttt atttggaag agaaaagcaa agcaagtta ttctggctct taaagtgtta 120
tttaaagctc agctggagaa agccggagtg gagcatcagc tcagaagaga agtagaaata 180
cagtcccacc ttcggcatcc taatattctt agactgtatg gttatttcca tgatgctacc 240
agagtctacc taattctgga atatgcacca cttggaacag ttatagaga acttcagaaa 300
ctttcaaagt ttgatgagca gagaactgct acttatataa cagaattggc aaatgccctg 360
tcttactgtc attcgaagag agttattcat agagacatta agccagagaa cttacttctt 420
ggatcagctg gagagcttaa aattgcagat tttgggtggt cagtacatgc tccatcttcc 480
aggaggacca ctctctgtgg caccctggac tacctgcccc ctgaaatgat tgaaggctcg 540
atgcatgatg agaaggtgga tctctggagc cttggagtgc ttgctatga atttttagtt 600
gggaagcctc cttttgaggc aaacacatac caagagacct acaaaagaat atcacgggtt 660
gaattcacat tccctgactt tgtaacagag ggagccaggg acctcatttc aagactgttg 720
aagcataatc ccagccagag gccaatgtc agagaagtac ttgaacaccc ctggatcaca 780
gcaaattcat caaaaccatc atag 804

<210> 3
<211> 295
<212> PRT
<213> Homo sapiens

AIK Sequence Listings.ST25

<220>
 <221> Amino acid sequence for residues 125-391 of AIK with a cleavable (rTev)
 N-terminal 6x-histidine tag
 <222> (1)..(295)
 <223>

<220>
 <221> cleavable (rTev) N-terminal 6x-histidine tag
 <222> (1)..(28)
 <223>

<400> 3

Met Ser Tyr Tyr His His His His His His Asp Tyr Asp Ile Pro Thr
 1 5 10 15

Thr Glu Asn Leu Tyr Phe Gln Gly Ala Met Gly Ser Lys Arg Gln Trp
 20 25 30

Ala Leu Glu Asp Phe Glu Ile Gly Arg Pro Leu Gly Lys Gly Lys Phe
 35 40 45

Gly Asn Val Tyr Leu Ala Arg Glu Lys Gln Ser Lys Phe Ile Leu Ala
 50 55 60

Leu Lys Val Leu Phe Lys Ala Gln Leu Glu Lys Ala Gly Val Glu His
 65 70 75 80

Gln Leu Arg Arg Glu Val Glu Ile Gln Ser His Leu Arg His Pro Asn
 85 90 95

Ile Leu Arg Leu Tyr Gly Tyr Phe His Asp Ala Thr Arg Val Tyr Leu
 100 105 110

Ile Leu Glu Tyr Ala Pro Leu Gly Thr Val Tyr Arg Glu Leu Gln Lys
 115 120 125

Leu Ser Lys Phe Asp Glu Gln Arg Thr Ala Thr Tyr Ile Thr Glu Leu
 130 135 140

Ala Asn Ala Leu Ser Tyr Cys His Ser Lys Arg Val Ile His Arg Asp
 145 150 155 160

Ile Lys Pro Glu Asn Leu Leu Leu Gly Ser Ala Gly Glu Leu Lys Ile
 165 170 175

Ala Asp Phe Gly Trp Ser Val His Ala Pro Ser Ser Arg Arg Thr Thr
 180 185 190

Leu Cys Gly Thr Leu Asp Tyr Leu Pro Pro Glu Met Ile Glu Gly Arg
 Page 4

195

Page 5